Linux System Admin I

CSIS - 1132 501

Course Description

Students completing this course will have an in-depth knowledge of installation, configuration and maintenance of Linux Systems. Topics include Security, user and group administration, networking, FACLs, LVM, task automation, troubleshooting, and more. This course helps prepare students to take Red Hat RHCSA or LPIC 1 exams. It is recommended students complete CSIS 1032 or possess equivalent knowledge prior to taking this course.

Semester: Fall & Spring

Course Student Learning Outcomes

- Develop system administration skills.
- Students will interact with shells and commands using the command line.
- Students will configure the mounting of a filesystem.
- Students will perform package management using RPM, YUM and Zypper.
- Students will design a disk partitioning scheme for a Linux system.

College Wide Student Learning Outcomes

- Gain a working knowledge of the Linux command line.

- Install and configure a computer running Linux.

- Configure basic networking using virtual machines.

- First course in 2-course series needed for preparing for LPIC-1 (Exam 101) Certification.

Course Prerequisites

None 1032 - Linux Essentials recommended.

Engagement Plan

Example language:

- I will respond to email within [48 hours but usually quicker. I will offer feedback on major assignments within [48 hours]. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.

- In this course I will be posting interactive announcements which will offer specific opportunities for class questions and extra credit every other week.

- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that may not be present in your textbook.

- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

Required Text or Materials

Title: NDG Introduction to Linux I
ISBN: 978-1-946780-04-1
Publisher: NDG

For more information on textbook accessibility, contact Accessibility & Disability Services at ads@slcc.edu.

Brief Description of Assignments/Exams

There are 26 Chapter Exams and 25 Labs in the course. There are three other exams as well including a midterm, a final, and a comprehensive final exam.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Chapter 01 Exam	Assignment	10
	Chapter 02 Exam	Assignment	10
	Chapter 03 Exam	Assignment	10
	Chapter 04 Exam	Assignment	10
	Chapter 05 Exam	Assignment	10
	Chapter 06 Exam	Assignment	10
	Chapter 07 Exam	Assignment	10
	Chapter 08 Exam	Assignment	10
	Chapter 09 Exam	Assignment	10
	Chapter 1: Introduction	Assignment	0
	Chapter 10 Exam	Assignment	10
	Chapter 11 Exam	Assignment	10
	Chapter 12 Exam	Assignment	10
	Chapter 13 Exam	Assignment	10
	Chapter 14 Exam	Assignment	10
	Chapter 2: Using the Shell	Assignment	0
	Chapter Exam 15	Assignment	10
	Chapter Exam 16	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
	Chapter Exam 17	Assignment	10
	Chapter Exam 18	Assignment	10
	Chapter Exam 19	Assignment	10
	Chapter Exam 20	Assignment	10
	Chapter Exam 21	Assignment	10
	Chapter Exam 22	Assignment	10
	Chapter Exam 23	Assignment	10
	Chapter Exam 24	Assignment	10
	Chapter Exam 25	Assignment	10
	Chapter Exam 26	Assignment	10
	Final Comprehensive Exam (Chapters 1-26)	Assignment	80
	Final Exam (Chapters 15-26)	Assignment	40
	Lab 02	Assignment	5
	Lab 03	Assignment	5
	Lab 04	Assignment	5
	Lab 05	Assignment	5
	Lab 06	Assignment	5
	Lab 07	Assignment	5
	Lab 08	Assignment	5
	Lab 09	Assignment	5
	Lab 10	Assignment	5

Due Date	Assignment Name	Assignment Type	Points
	Lab 11	Assignment	5
	Lab 12	Assignment	5
	Lab 13	Assignment	5
	Lab 14	Assignment	5
	Lab 15	Assignment	5
	Lab 17	Assignment	5
	Lab 18	Assignment	5
	Lab 21	Assignment	5
	Lab 22	Assignment	5
	Lab 23	Assignment	5
	Lab 24	Assignment	5
	Lab 25	Assignment	5
	Midterm Exam (Chapters 1-14)	Assignment	40
	Purchase Netacad - Get logged in	Assignment	0

Grading Scale

Grading: 75% of your grade will for the module Exams and labs. 25% or your grade is based on the score on the mid-term and final. You must complete the course feedback to get the LPIC discount coupon to take the LPIC Exam. You do not need to take the LPIC exam for this course. Read about LPIC here: https://www.lpi.org/our-certifications/summary-of-certifications

All courses in the Computer Science department will use the following grade scale:

A	94-100	B+	87-89.99	C+	77-79.99	D+	67-69.99	E	0-59.99
A-	90-93.99	B	84-86.99	C	74-76.99	D	64-66.99		
		B-	80-83.99	C-	70-73.99	D-	60-63.99		

Academic Integrity

Academic dishonesty: Academic dishonesty, including cheating, plagiarism, misrepresentation or collaboration, will not be tolerated in the CSIS department.

How to Navigate to Canvas

Online Tutoring

Students at SLCC have access to online tutoring through Canvas. From your Canvas course click Online Tutoring in the course navigation and follow the steps to set up an appointment. If this is your first time using the Online Tutoring we recommend you click "Take a Tour" to familiarize yourself with the service.

Note that students only receive 480 minutes of tutoring time each semester. After that we encourage you to use the resources found through this link: https://www.slcc.edu/tutoring/index.aspx

If you have any additional questions reach out to elearningsupport@slcc.edu.

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)